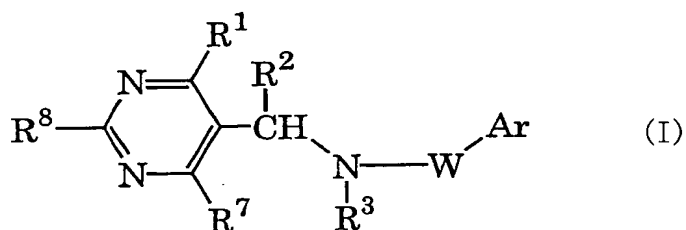


IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A pyrimidine derivative represented by the formula

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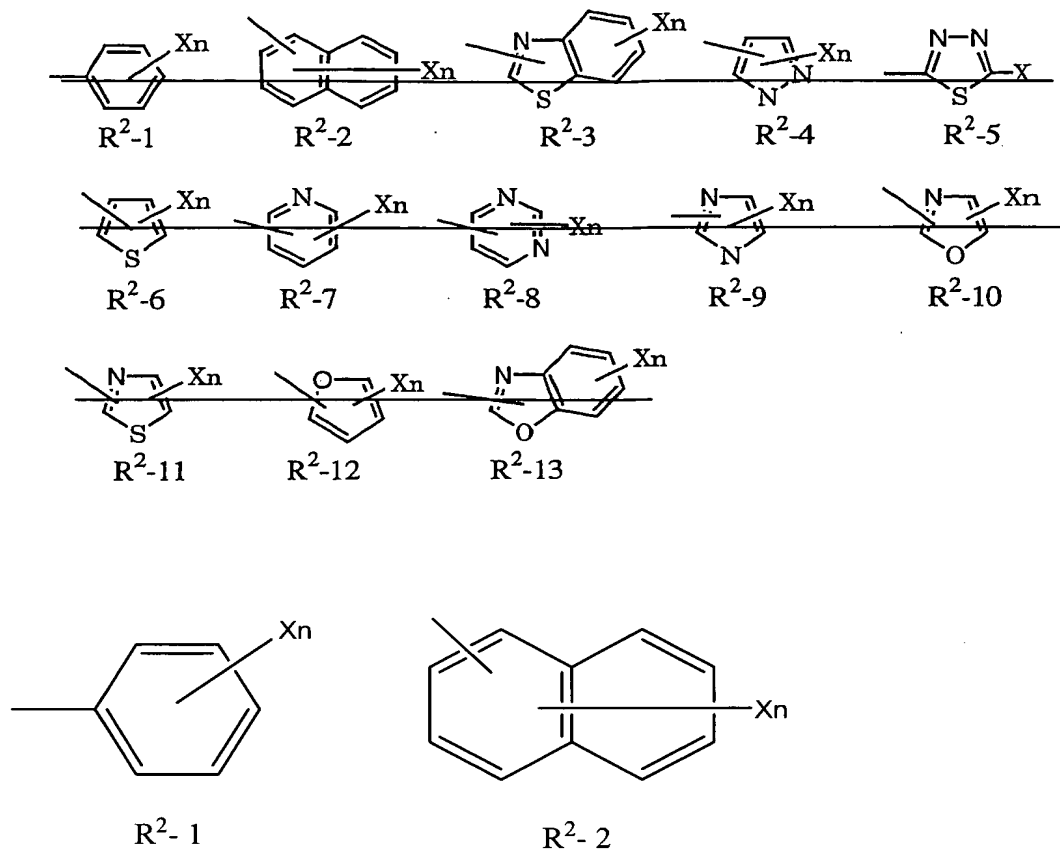
wherein R^1 is a hydrogen atom (except for a case where R^2 = hydrogen atom, and $W=SO_2$), a halogen atom, a C_1 - C_6 alkyl group, a C_1 - C_6 alkylcarbonyl C_1 - C_6 alkyl group, a hydroxyl group, a C_2 - C_6 alkenyl group, a C_2 - C_6 alkynyl group, a C_3 - C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1 - C_6 alkyl group, a C_1 - C_6 alkoxy group or a C_1 - C_4 haloalkyl group), a C_1 - C_4 haloalkyl group, a C_1 - C_6 alkoxy group, a C_1 - C_4 haloalkoxy group, a C_2 - C_6 alkenyloxy group, a C_2 - C_6 alkynyloxy group, a C_3 - C_6 cycloalkyloxy group, a phenyl group (this group may be substituted by a halogen atom, a C_1 - C_6 alkyl group, a C_1 - C_6 alkoxy group, a C_1 - C_4 haloalkyl group, a C_1 - C_4 haloalkoxy group, a cyano group, a cyano C_1 - C_6 alkyl group, a nitro group, a C_1 - C_6 alkylthio group, a C_1 - C_6 alkylsulfinyl group or a C_1 - C_6 alkylsulfonyl group), a

C_1 - C_6 alkylthio group (except for a case where R^2 = phenyl group, and $W=SO_2$), a C_2 - C_6 alkenylthio group, a C_2 - C_6 alkynylthio group, a C_3 - C_6 cycloalkylthio group, a C_1 - C_6 alkylsulfinyl group, a C_2 - C_6 alkenylsulfinyl group, a

C_2 - C_6 alkynylsulfinyl group, a C_3 - C_6 cycloalkylsulfinyl group, a C_1 - C_6 alkylsulfonyl group, a C_2 - C_6 alkenylsulfonyl group, a C_2 - C_6 alkynylsulfonyl group, a C_3 - C_6 cycloalkylsulfonyl group, a C_1 - C_6 hydroxyalkyl group, a C_2 - C_7 acyl group, a C_1 - C_6 alkoxy

C₁-C₆ alkyl group, a cyano group, a C₁-C₆ alkoxy carbonyl group, a C₁-C₆ alkoxy carbonyl C₁-C₆ alkyl group, a C₁-C₆ alkoxy carbonyl C₂-C₆ alkenyl group, a carboxyl group, a carboxyl C₁-C₆ alkyl group, a di C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkoxyimino C₁-C₆ alkyl group, a hydroxyimino C₁-C₆ alkyl group, a dioxolanyl group (this group may be substituted by a C₁-C₆ alkyl group), an aldehyde group, an oxiranyl group, a NR⁹R¹⁰ group or a CONR⁹R¹⁰ group, and R⁹ is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group, a C₂-C₇ acyl group or a C₁-C₆ alkylsulfonyl group, and R¹⁰ is a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group, a C₂-C₇ acyl group, a C₁-C₆ alkylsulfonyl group, a C₁-C₆ alkoxy carbonyl group or a benzyloxy carbonyl group; ~~here R⁹ and R¹⁰ may, together with the carbon atom to which they are bonded, form a 5 to 7 membered saturated ring,~~

R² is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkylthio group, a C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group (this group may be substituted by a halogen atom, a C₁-C₆ alkyl group, a C₁-C₆ alkoxy group or a C₁-C₄ haloalkyl group), a C₂-C₇ acyl group, a cyano group, a di C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkoxyimino C₁-C₆ alkyl group, a hydroxyimino C₁-C₆ alkyl group, a dioxolanyl group (this group may be substituted by a C₁-C₆ alkyl group), a cyano C₁-C₆ alkyl group, a C₁-C₆ hydroxyalkyl group, a C₁-C₆ alkoxy carbonyl group, a C₁-C₆ alkoxy carbonyl C₁-C₆ alkyl group, a CR¹¹R¹²NR⁹R¹⁰ group, a CONR⁹R¹⁰ group, a CR¹¹R¹²CONR⁹R¹⁰ group or a group represented by ~~any one of the formulae R²-1 to R²-13~~ R²-1 or R²-2:



(and wherein X is a hydrogen atom, a halogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkoxy group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a NR⁹R¹⁰ group, a CONR⁹R¹⁰ group, a C₁-C₄ haloalkoxy group, a C₂-C₆ alkenyloxy group, a C₃-C₆ cycloalkyloxy group, a

C₂-C₇ acyl group, a C₁-C₆ alkoxycarbonyl group, a C₁-C₆ alkylthio group, a C₁-C₆ alkylsulfinyl group, a C₁-C₆ alkylsulfonyl group, a cyano group, a nitro group or a

C₁-C₄ haloalkyl group, and n is an integer of from 1 to 3, and when n is an integer of 2 or 3, the plurality of X may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C₁-C₃ alkylenedioxy group);

each of R¹¹ and R¹² is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group or a C₁-C₆ alkoxy group;

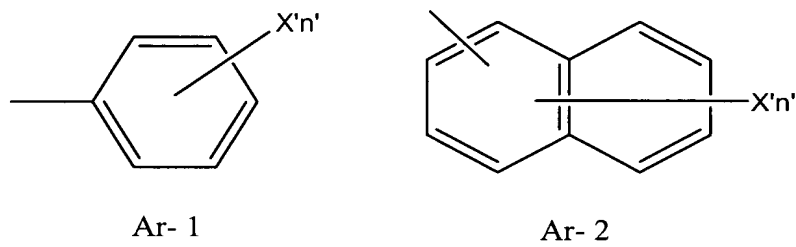
R^3 is a hydrogen atom, a C_1 - C_6 alkyl group, a C_2 - C_6 alkenyl group, a C_2 - C_6 alkynyl group, a C_1 - C_6 alkoxy group, a di C_1 - C_6 alkylamino group, a C_3 - C_6 cycloalkyl group, a C_1 - C_6 alkoxy C_1 - C_6 alkyl group, a cyano C_1 - C_6 alkyl group, a C_3 - C_6 cycloalkyl C_1 - C_6 alkyl group, an oxiranyl C_1 - C_6 alkyl group or a C_1 - C_6 alkoxycarbonyl C_1 - C_6 alkyl group; ;

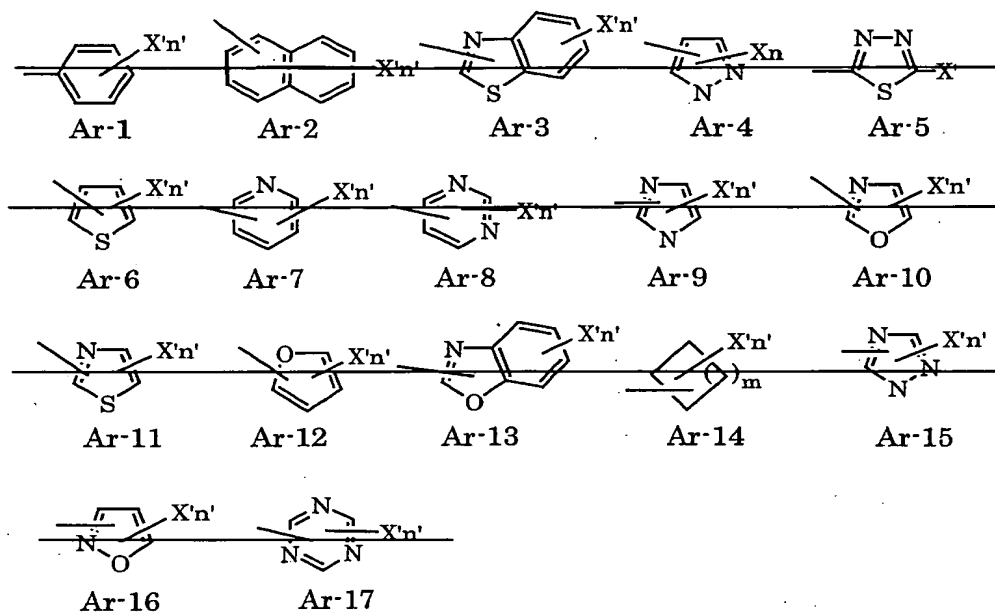
W is a $-C(=Q)Z-$ group or a $-SO_2-$ group, Q is an oxygen atom or a sulfur atom, Z is an oxygen atom, a sulfur atom, a $-NR^6-$ group, a

$-CH_2CH_2-$ group, a $-CH=CH-$ group, a $-C(R^4)R^5-$ group, a

$-C(R^4)R^5-Q-$ group, a $-Q-C(R^4)R^5-$ group, a $-C(=Q)-$ group, a $-NR^6NR^{6a}-$ group or a $-NR^6C(R^4)R^5-$ group, and each of R^4 and R^5 is a hydrogen atom, a C_1 - C_6 alkyl group, a halogen atom, a C_1 - C_6 alkoxy group or a C_1 - C_6 alkylthio group, each of R^6 and R^{6a} is a hydrogen atom, a C_1 - C_6 alkyl group, a C_2 - C_6 alkenyl group or a C_2 - C_6 alkynyl group; ~~here R^3 and R^6 may, together with the carbon atom to which they are bonded, form a 5 to 7 membered cyclic urea,~~

Ar is a group represented by ~~any one of the formulae Ar-1 to Ar-17~~ Ar-1 or Ar-2:





and (wherein X' is a hydrogen atom, a halogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkoxy group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a NR⁹R¹⁰ group, a CONR⁹R¹⁰ group, a C₁-C₄ haloalkoxy group, a C₂-C₆ alkenyloxy group, a C₃-C₆ cycloalkyloxy group, a

C₂-C₇ acyl group, a C₁-C₆ alkoxycarbonyl group, a C₁-C₆ alkylthio group, a C₁-C₆ alkylsulfinyl group, a C₁-C₆ alkylsufonyl group, a cyano group, a nitro group or a

C₁-C₄ haloalkyl group, n' is an integer of from 1 to 3, ~~m is an integer of from 0 to 3,~~
and when n' is an integer of 2 or 3, the plurality of X' may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C₁-C₃ alkylenedioxy group);

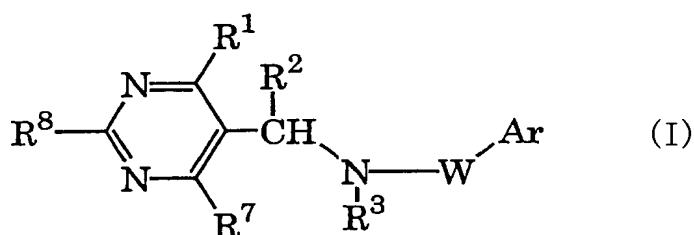
R⁷ is a hydrogen atom, a halogen atom, a C₁-C₆ alkyl group, a

C₁-C₆ alkoxy group, a C₁-C₆ alkylthio group, a C₁-C₄ haloalkyl group or a C₃-C₆ cycloalkyl group; and

R^8 is a hydrogen atom, a C_1 - C_6 alkyl group, a C_1 - C_6 alkylthio group, a C_1 - C_4 haloalkyl group or a C_3 - C_6 cycloalkyl group.

Claim 2 (Currently Amended): A pyrimidine derivative represented by the formula

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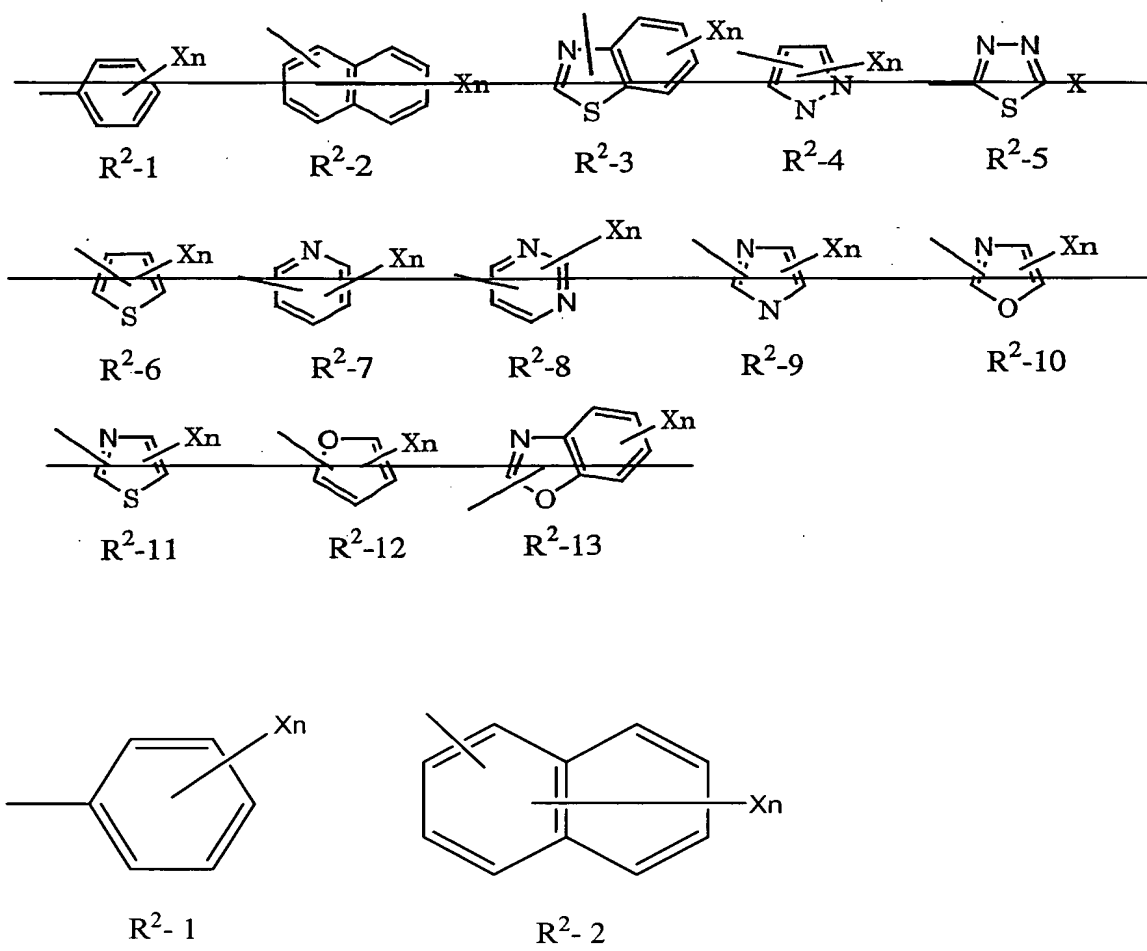


wherein R^1 is a hydrogen atom, a halogen atom, a C_1 - C_6 alkyl group, a C_1 - C_6 alkylcarbonyl C_1 - C_6 alkyl group, a hydroxyl group, a C_2 - C_6 alkenyl group, a C_2 - C_6 alkynyl group, a C_3 - C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1 - C_6 alkyl group, a

C_1 - C_6 alkoxy group or a C_1 - C_4 haloalkyl group), a C_1 - C_4 haloalkyl group, a C_1 - C_6 alkoxy group, a C_1 - C_4 haloalkoxy group, a C_2 - C_6 alkenyloxy group, a C_2 - C_6 alkynyloxy group, a C_3 - C_6 cycloalkyloxy group, a phenyl group (this group may be substituted by a halogen atom, a C_1 - C_6 alkyl group, a C_1 - C_6 alkoxy group, a C_1 - C_4 haloalkyl group, a C_1 - C_4 haloalkoxy group, a cyano group, a nitro group, a C_1 - C_6 alkylthio group, a C_1 - C_6 alkylsulfinyl group or a C_1 - C_6 alkylsulfonyl group), a C_1 - C_6 alkylthio group, a C_2 - C_6 alkenylthio group, a C_2 - C_6 alkynylthio group, a C_3 - C_6 cycloalkylthio group, a C_1 - C_6 alkylsulfinyl group, a C_2 - C_6 alkenylsulfinyl group, a C_2 - C_6 alkynylsulfinyl group, a C_3 - C_6 cycloalkylsulfinyl group, a C_1 - C_6 alkylsulfonyl group, a C_2 - C_6 alkenylsulfonyl group, a C_2 - C_6 alkynylsulfonyl group, a C_3 - C_6 cycloalkylsulfonyl group, a hydroxyalkyl group, a C_2 - C_7 acyl group, a C_1 - C_6 alkoxy C_1 - C_6 alkyl group, a cyano group, a cyano C_1 - C_6 alkyl group, a C_1 - C_6 alkoxycarbonyl group, a C_1 -

C₆ alkoxy carbonyl C₁-C₆ alkyl group, a C₁-C₆ alkoxy carbonyl C₂-C₆ alkenyl group, a carboxyl group, a carboxyl C₁-C₆ alkyl group, a di C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkoxyimino C₁-C₆ alkyl group, a hydroxyimino C₁-C₆ alkyl group, a dioxolanyl group (this group may be substituted by a C₁-C₆ alkyl group), an aldehyde group, an oxiranyl group, a NR⁹R¹⁰ group or a CONR⁹R¹⁰ group, and R⁹ is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group, a C₂-C₇ acyl group or a C₁-C₆ alkylsulfonyl group, and R¹⁰ is a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group, a C₂-C₇ acyl group, a C₁-C₆ alkylsulfonyl group, a C₁-C₆ alkoxy carbonyl group or a benzyloxy carbonyl group; ~~here R⁹ and R¹⁰ may, together with the carbon atom to which they are bonded, form a 5 to 7 membered saturated ring,~~

R² is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkylthio group, a C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group (this group may be substituted by a halogen atom, a C₁-C₆ alkyl group, a C₁-C₆ alkoxy group or a C₁-C₄ haloalkyl group), a C₂-C₇ acyl group, a cyano group, a di C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkoxyimino C₁-C₆ alkyl group, a hydroxyimino C₁-C₆ alkyl group, a ~~dioxolanyl group (this group may be substituted by a C₁-C₆ alkyl group),~~ a cyano C₁-C₆ alkyl group, a C₁-C₆ hydroxyalkyl group, a C₁-C₆ alkoxy carbonyl group, a C₁-C₆ alkoxy carbonyl C₁-C₆ alkyl group, a CR¹¹R¹²NR⁹R¹⁰ group, a CONR⁹R¹⁰ group, a CR¹¹R¹²CONR⁹R¹⁰ group or a group represented by ~~any one of the formulae R²-1 to R²-13~~ R²-1 or R²-2:



and (wherein X is a hydrogen atom, a halogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkoxy group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a NR⁹R¹⁰ group, a CONR⁹R¹⁰ group, a C₁-C₄ haloalkoxy group, a C₂-C₆ alkenyloxy group, a C₃-C₆ cycloalkyloxy group, a

C₂-C₇ acyl group, a C₁-C₆ alkoxycarbonyl group, a C₁-C₆ alkylthio group, a C₁-C₆ alkylsulfinyl group, a C₁-C₆ alkylsufonyl group, a cyano group, a nitro group or a

C₁-C₄ haloalkyl group, n is an integer of from 1 to 3, and when n is an integer of 2 or 3, the plurality of X may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C₁-C₃ alkylenedioxy group), and each of R¹¹ and R¹² is a

hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group or a C₁-C₆ alkoxy group; ;

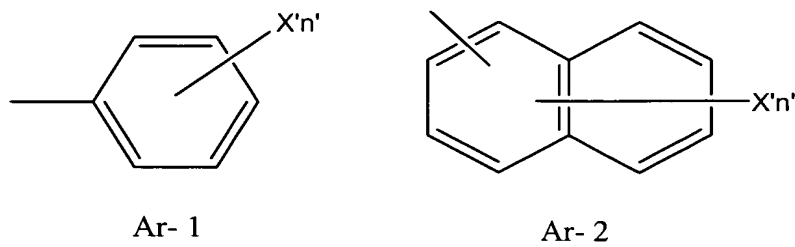
R³ is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkoxy group, a di C₁-C₆ alkylamino group, a C₃-C₆ cycloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a cyano C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl C₁-C₆ alkyl group, an oxiranyl C₁-C₆ alkyl group or a C₁-C₆ alkoxycarbonyl C₁-C₆ alkyl group; ;

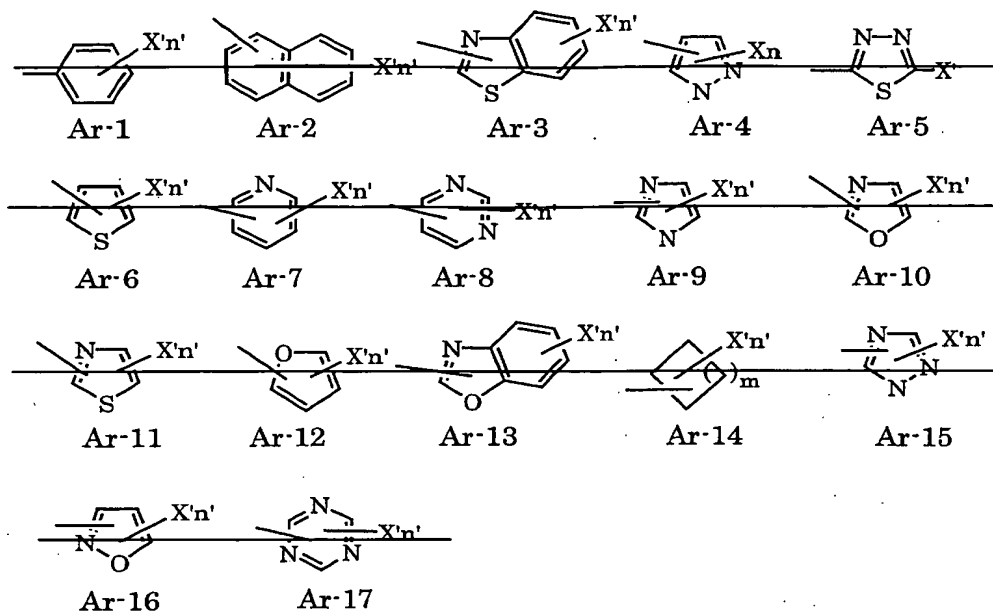
W is a -C(=Q)Z- group, Q is an oxygen atom or a sulfur atom, Z is an oxygen atom, a sulfur atom, a -NR⁶- group, a

-CH₂CH₂- group, a -CH=CH- group, a -C(R⁴)R⁵- group, a

-C(R⁴)R⁵-Q- group, a -Q-C(R⁴)R⁵- group, a -C(=Q)- group, a -NR⁶NR^{6a}- group or a -NR⁶C(R⁴)R⁵- group, each of R⁴ and R⁵ is a hydrogen atom, a C₁-C₆ alkyl group, a halogen atom, a C₁-C₆ alkoxy group or a C₁-C₆ alkylthio group, each of R⁶ and R^{6a} is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group or a C₂-C₆ alkynyl group; ; here R³ and R⁶ may, together with the carbon atom to which they are bonded, form a 5- to 7-membered cyclic urea;

Ar is a group represented by ~~any one of the formulae Ar-1 to Ar-17~~ Ar-1 or Ar-2:





and (wherein X' is a hydrogen atom, a halogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkoxy group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a NR⁹R¹⁰ group, a CONR⁹R¹⁰ group, a C₁-C₄ haloalkoxy group, a C₂-C₆ alkenyloxy group, a C₃-C₆ cycloalkyloxy group, a

C₂-C₇ acyl group, a C₁-C₆ alkoxycarbonyl group, a C₁-C₆ alkylthio group, a C₁-C₆ alkylsulfinyl group, a C₁-C₆ alkylsulfonyl group, a cyano group, a nitro group or a

C₁-C₄ haloalkyl group, n' is an integer of from 1 to 3, ~~m is an integer of from 0 to 3,~~
 and when n' is an integer of 2 or 3, the plurality of X' may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C₁-C₃ alkylenedioxy group);

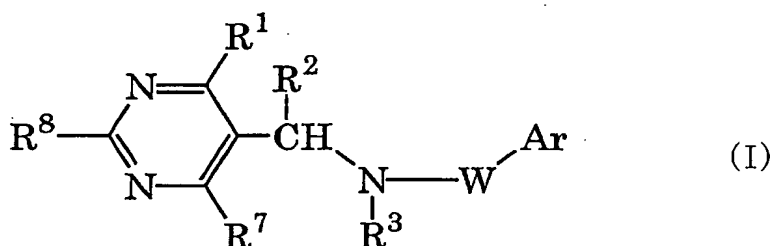
R⁷ is a hydrogen atom, a halogen atom, a C₁-C₆ alkyl group, a

C₁-C₆ alkoxy group, a C₁-C₆ alkylthio group, a C₁-C₄ haloalkyl group or a C₃-C₆ cycloalkyl group; and

R^8 is a hydrogen atom, a C_1 - C_6 alkyl group, a C_1 - C_6 alkylthio group, a C_1 - C_4 haloalkyl group or a C_3 - C_6 cycloalkyl group.

Claim 3 (Currently Amended): A pyrimidine derivative represented by the formula

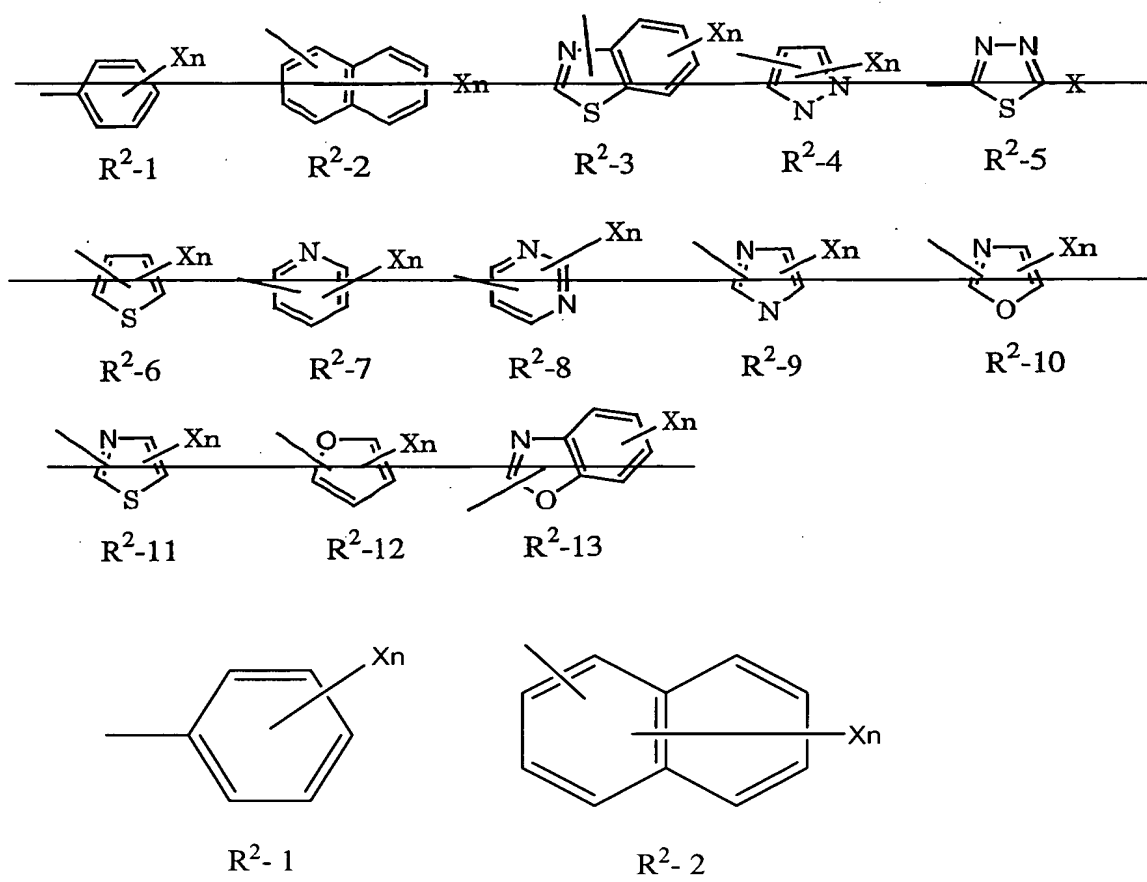
(I)



wherein R^1 is a halogen atom, a C_1 - C_6 alkyl group, an oxo C_1 - C_6 alkyl group, a hydroxyl group, a C_2 - C_6 alkenyl group, a C_2 - C_6 alkynyl group, a C_3 - C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1 - C_6 alkyl group, a C_1 - C_6 alkoxy group or a C_1 - C_4 haloalkyl group), a C_1 - C_4 haloalkyl group, a C_1 - C_6 alkoxy group, a C_1 - C_4 haloalkoxy group, a C_2 - C_6 alkenyloxy group, a C_2 - C_6 alkynyloxy group, a C_3 - C_6 cycloalkyloxy group, a phenyl group (this group may be substituted by a halogen atom, a C_1 - C_6 alkyl group, a C_1 - C_6 alkoxy group, a C_1 - C_4 haloalkyl group, a C_1 - C_4 haloalkoxy group, a cyano group, a nitro group, a C_1 - C_6 alkylthio group, a C_1 - C_6 alkylsulfinyl group or a C_1 - C_6 alkylsulfonyl group), a C_2 - C_6 alkenylthio group, a C_2 - C_6 alkynylthio group, a C_3 - C_6 cycloalkylthio group, a C_1 - C_6 alkylsulfinyl group, a C_2 - C_6 alkenylsulfinyl group, a C_2 - C_6 alkynylsulfinyl group, a C_3 - C_6 cycloalkylsulfinyl group, a C_1 - C_6 alkylsulfonyl group, a C_2 - C_6 alkenylsulfonyl group, a C_2 - C_6 alkynylsulfonyl group, a C_3 - C_6 cycloalkylsulfonyl group, a hydroxyalkyl group, a C_2 - C_7 acyl group, a C_1 - C_6 alkoxy C_1 - C_6 alkyl group, a cyano group, a cyano C_1 - C_6 alkyl group, a C_1 - C_6 alkoxycarbonyl group, a C_1 - C_6 alkoxycarbonyl C_1 - C_6 alkyl group, a C_1 - C_6

alkoxycarbonyl C₂-C₆ alkenyl group, a carboxyl group, a carboxyl C₁-C₆ alkyl group, a di C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkoxyimino C₁-C₆ alkyl group, a hydroxyimino C₁-C₆ alkyl group, a dioxolanyl group (this group may be substituted by a C₁-C₆ alkyl group), an aldehyde group, an oxiranyl group, a NR⁹R¹⁰ group or a CONR⁹R¹⁰ group, and R⁹ is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group, a C₂-C₇ acyl group or a C₁-C₆ alkylsulfonyl group, and R¹⁰ is a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group, a C₂-C₇ acyl group, a C₁-C₆ alkylsulfonyl group, a C₁-C₆ alkoxycarbonyl group or a benzyloxycarbonyl group; ~~here R⁹ and R¹⁰ may, together with the carbon atom to which they are bonded, form a 5 to 7 membered saturated ring;~~

R² is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkylthio group, a C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group (this group may be substituted by a halogen atom, a C₁-C₆ alkyl group, a C₁-C₆ alkoxy group or a C₁-C₄ haloalkyl group), a C₂-C₇ acyl group, a cyano group, a di C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkoxyimino C₁-C₆ alkyl group, a hydroxyimino C₁-C₆ alkyl group, a ~~dioxolanyl group (this group may be substituted by a C₁-C₆ alkyl group)~~, a cyano C₁-C₆ alkyl group, a C₁-C₆ hydroxyalkyl group, a C₁-C₆ alkoxycarbonyl group, a C₁-C₆ alkoxycarbonyl C₁-C₆ alkyl group, a CR¹¹R¹²NR⁹R¹⁰ group, a CONR⁹R¹⁰ group, a CR¹¹R¹²CONR⁹R¹⁰ group or a group represented by ~~any one of the formulae R²-1 to R²-13~~ R²-1 or R²-2:



and (wherein X is a hydrogen atom, a halogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkoxy group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a NR⁹R¹⁰ group, a CONR⁹R¹⁰ group, a C₁-C₄ haloalkoxy group, a C₂-C₆ alkenyloxy group, a C₃-C₆ cycloalkyloxy group, a

C₂-C₇ acyl group, a C₁-C₆ alkoxycarbonyl group, a C₁-C₆ alkylthio group, a C₁-C₆ alkylsulfinyl group, a C₁-C₆ alkylsufonyl group, a cyano group, a nitro group or a

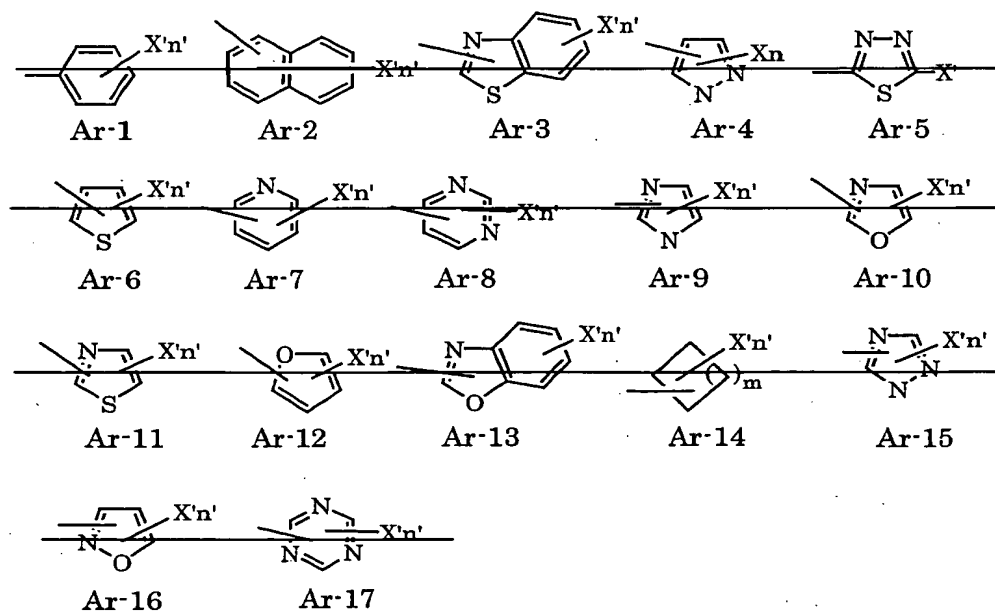
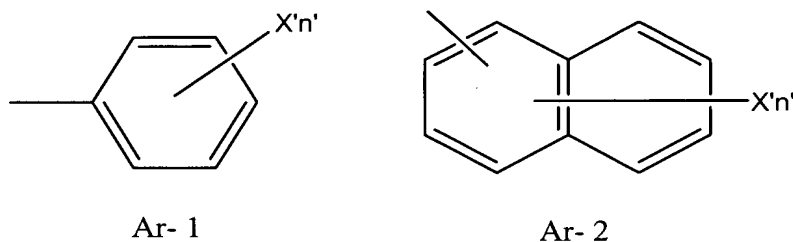
C₁-C₄ haloalkyl group, n is an integer of from 1 to 3, and when n is an integer of 2 or 3, the plurality of X may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C₁-C₃ alkylenedioxy group), and each of R¹¹ and R¹² is a

hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group or a C₁-C₆ alkoxy group;

R³ is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkoxy group, a di C₁-C₆ alkylamino group, a C₃-C₆ cycloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a cyano C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl C₁-C₆ alkyl group, an oxiranyl C₁-C₆ alkyl group or a C₁-C₆ alkoxycarbonyl C₁-C₆ alkyl group;

W is a -SO₂- group;

Ar is a group represented by any one of the formulae Ar-1 to Ar-17 Ar-1 or Ar-2:



and (wherein X' is a hydrogen atom, a halogen atom, an alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a

C₁-C₆ alkoxy group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a NR⁹R¹⁰ group, a CONR⁹R¹⁰ group, a C₁-C₄ haloalkoxy group, a C₂-C₆ alkenyloxy group, a C₃-C₆ cycloalkyloxy group, a

C₂-C₇ acyl group, a C₁-C₆ alkoxycarbonyl group, a C₁-C₆ alkylthio group, a C₁-C₆ alkylsulfinyl group, a C₁-C₆ alkylsufonyl group, a cyano group, a nitro group or a

C₁-C₄ haloalkyl group, n' is an integer of from 1 to 3, ~~m is an integer of from 0 to 3,~~
and when n' is an integer of 2 or 3, the plurality of X' may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C₁-C₃ alkylenedioxy group);

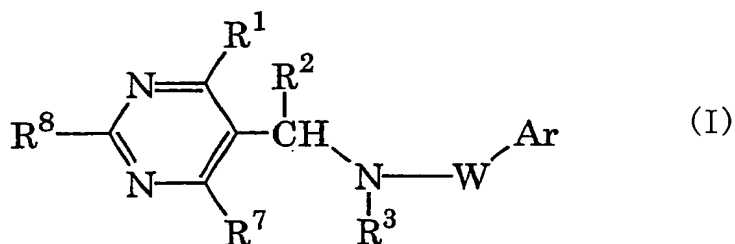
R⁷ is a hydrogen atom, a halogen atom, a C₁-C₆ alkyl group, a

C₁-C₆ alkoxy group, a C₁-C₆ alkylthio group, a C₁-C₄ haloalkyl group or a C₃-C₆ cycloalkyl group; and

R⁸ is a hydrogen atom, a C₁-C₆ alkyl group, a C₁-C₆ alkylthio group, a C₁-C₄ haloalkyl group or a C₃-C₆ cycloalkyl group.

Claim 4 (Currently Amended): A pyrimidine derivative represented by the formula

(I)



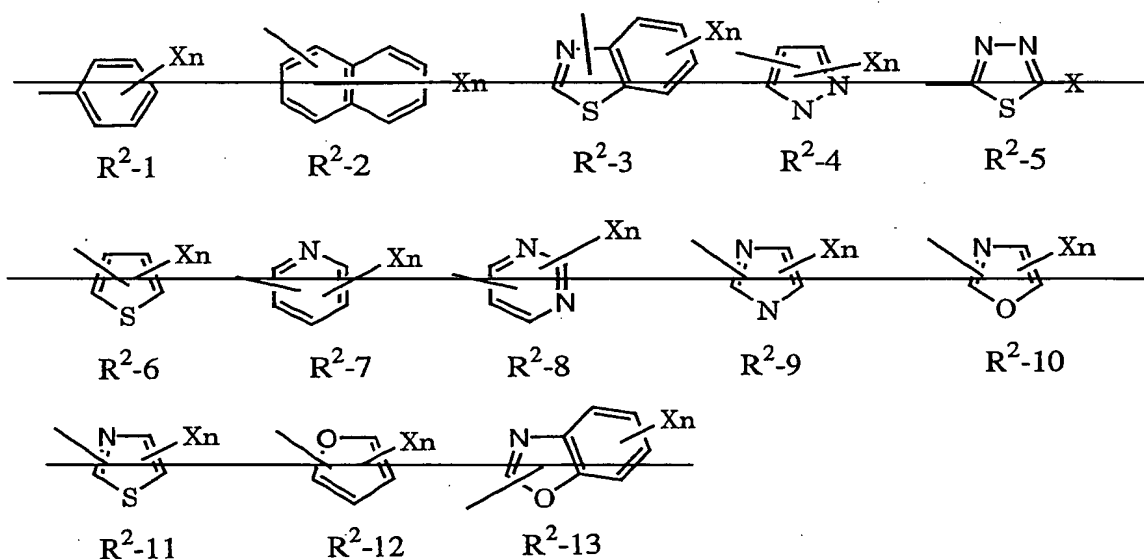
wherein R^1 is a halogen atom, a C_1 - C_6 alkyl group, a C_1 - C_6 alkylcarbonyl C_1 - C_6 alkyl group, a hydroxyl group, a C_2 - C_6 alkenyl group, a C_2 - C_6 alkynyl group, a C_3 - C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1 - C_6 alkyl group, a C_1 - C_6 alkoxy group or a C_1 - C_4 haloalkyl group), a C_1 - C_4 haloalkyl group, a C_1 - C_6 alkoxy group, a C_1 - C_4 haloalkoxy group, a C_2 - C_6 alkenyloxy group, a C_2 - C_6 alkynyloxy group, a C_3 - C_6 cycloalkyloxy group, a phenyl group (this group may be substituted by a halogen atom, a C_1 - C_6 alkyl group, a C_1 - C_6 alkoxy group, a C_1 - C_4 haloalkyl group, a C_1 - C_4 haloalkoxy group, a cyano group, a nitro group, a C_1 - C_6 alkylthio group, a C_1 - C_6 alkylsulfinyl group or a C_1 - C_6 alkylsulfonyl group), a

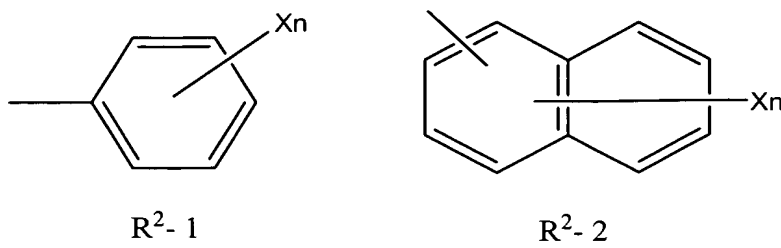
C_1 - C_6 alkylthio group (except for a case where R^2 = phenyl group, and $W=SO_2$), a C_2 - C_6 alkenylthio group, a C_2 - C_6 alkynylthio group, a C_3 - C_6 cycloalkylthio group, a C_1 - C_6 alkylsulfinyl group, a C_2 - C_6 alkenylsulfinyl group, a

C_2 - C_6 alkynylsulfinyl group, a C_3 - C_6 cycloalkylsulfinyl group, a C_1 - C_6 alkylsulfonyl group, a C_2 - C_6 alkenylsulfonyl group, a C_2 - C_6 alkynylsulfonyl group, a C_3 - C_6 cycloalkylsulfonyl group, a C_1 - C_6 hydroxyalkyl group, a C_2 - C_7 acyl group, a C_1 - C_6 alkoxy C_1 - C_6 alkyl group, a cyano group, a cyano C_1 - C_6 alkyl group, a C_1 - C_6 alkoxycarbonyl group, a C_1 - C_6 alkoxycarbonyl C_1 - C_6 alkyl group, a C_1 - C_6 alkoxycarbonyl C_2 - C_6 alkenyl group, a carboxyl group, a carboxyl C_1 - C_6 alkyl group, a di C_1 - C_6 alkoxy C_1 - C_6 alkyl group, a C_1 - C_6 alkoxyimino C_1 - C_6 alkyl group, a hydroxyimino C_1 - C_6 alkyl group, a dioxolanyl group (this group may be substituted by a C_1 - C_6 alkyl group), an aldehyde group, an oxiranyl group, a NR^9R^{10} group or a $CONR^9R^{10}$ group, and R^9 is a hydrogen atom, a C_1 - C_6 alkyl group, a C_2 - C_6 alkenyl group, a C_2 - C_6 alkynyl group, a C_1 - C_4 haloalkyl group, a C_1 - C_6 alkoxy C_1 - C_6 alkyl group, a C_1 - C_6 alkylthio C_1 - C_6 alkyl group, a C_3 - C_6 cycloalkyl group, a C_2 - C_7 acyl group or a C_1 - C_6 alkylsulfonyl group, and R^{10} is a C_1 - C_6 alkyl group, a C_2 - C_6 alkenyl group, a C_2 - C_6 alkynyl group, a C_1 - C_4 haloalkyl group, a C_1 - C_6 alkoxy C_1 - C_6 alkyl group, a C_1 - C_6 alkylthio

C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group, a C₂-C₇ acyl group, a C₁-C₆ alkylsulfonyl group, a C₁-C₆ alkoxy carbonyl group or a benzyloxy carbonyl group; ~~here R⁹ and R¹⁰ may, together with the carbon atom to which they are bonded, form a 5- to 7-membered saturated ring,~~

R² is a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkylthio group, a C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group (this group may be substituted by a halogen atom, a C₁-C₆ alkyl group, a C₁-C₆ alkoxy group or a C₁-C₄ haloalkyl group), a C₂-C₇ acyl group, a cyano group, a di C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkoxyimino C₁-C₆ alkyl group, a hydroxyimino C₁-C₆ alkyl group, ~~a dioxolanyl group (this group may be substituted by a C₁-C₆ alkyl group),~~ a cyano C₁-C₆ alkyl group, a C₁-C₆ hydroxyalkyl group, a C₁-C₆ alkoxy carbonyl group, a C₁-C₆ alkoxy carbonyl C₁-C₆ alkyl group, a CR¹¹R¹²NR⁹R¹⁰ group, a CONR⁹R¹⁰ group, a CR¹¹R¹²CONR⁹R¹⁰ group or a group represented by ~~any one of the formulae R²-1 to R²-13~~ R²-1 or R²-2:





and (wherein X is a hydrogen atom, a halogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkoxy group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a NR⁹R¹⁰ group, a CONR⁹R¹⁰ group, a C₁-C₄ haloalkoxy group, a C₂-C₆ alkenyloxy group, a C₃-C₆ cycloalkyloxy group, a

C₂-C₇ acyl group, a C₁-C₆ alkoxy carbonyl group, a C₁-C₆ alkylthio group, a C₁-C₆ alkylsulfinyl group, a C₁-C₆ alkylsulfonyl group, a cyano group, a nitro group or a

C₁-C₄ haloalkyl group, n is an integer of from 1 to 3, and when n is an integer of 2 or 3, the plurality of X may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C₁-C₃ alkylenedioxy group), and each of R¹¹ and R¹² is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group or a C₁-C₆ alkoxy group,;

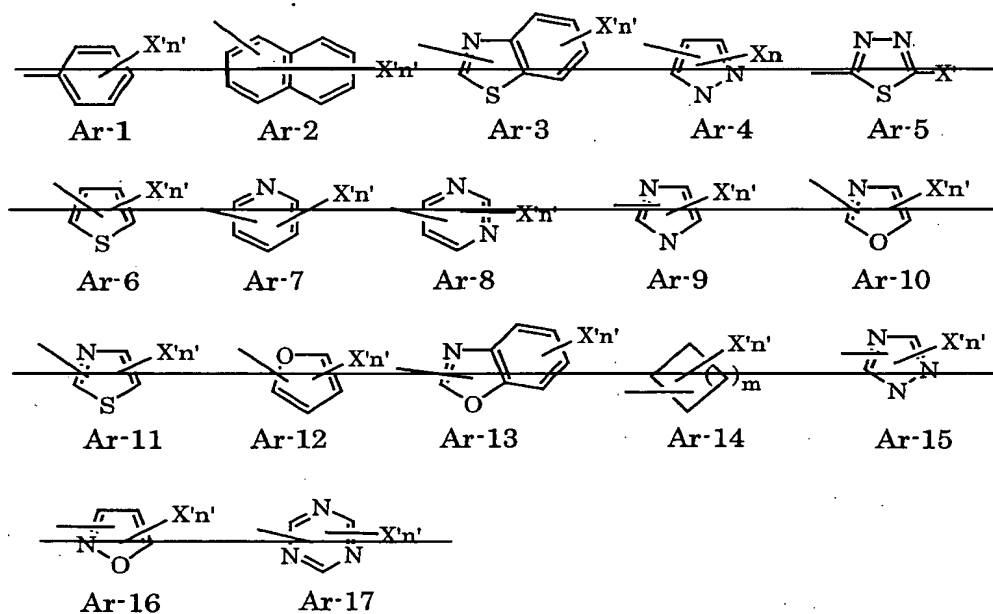
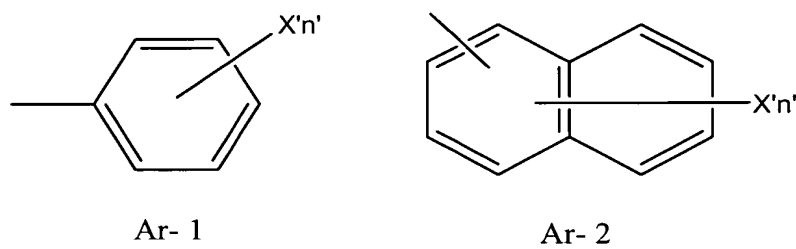
R³ is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkoxy group, a di C₁-C₆ alkylamino group, a C₃-C₆ cycloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a cyano C₁-C₆ alkyl group or a C₃-C₆ cycloalkyl C₁-C₆ alkyl group,;

W is a -C(=Q)Z- group or a -SO₂- group, Q is an oxygen atom or a sulfur atom, Z is an oxygen atom, a sulfur atom, a -NR⁶- group, a -C(R⁴)R⁵- group, a

-C(R⁴)R⁵-Q- group, a -NR⁶NR^{6a}- group or a -NR⁶C(R⁴)R⁵- group, and each of R⁴ and R⁵ is a hydrogen atom, a C₁-C₆ alkyl group, a halogen atom or a C₁-C₆ alkoxy group, and each of R⁶ and R^{6a} is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group or a C₂-C₆

alkynyl group; here R^3 and R^6 may, together with the carbon atom to which they are bonded, form a 5 to 7 membered cyclic urea;

Ar is a group represented by any one of the formulae Ar-1 to Ar-17 Ar-1 or Ar-2:



and (wherein X' is a hydrogen atom, a halogen atom, a C_1 - C_6 alkyl group, a C_2 - C_6 alkenyl group, a C_2 - C_6 alkynyl group, a C_1 - C_6 alkoxy group, a C_1 - C_6 alkoxy C_1 - C_6 alkyl group, a NR^9R^{10} group, a $CONR^9R^{10}$ group, a C_1 - C_4 haloalkoxy group, a C_2 - C_6 alkenyloxy group, a C_3 - C_6 cycloalkyloxy group, a

C₂-C₇ acyl group, a C₁-C₆ alkoxy carbonyl group, a C₁-C₆ alkylthio group, a C₁-C₆ alkylsulfinyl group, a C₁-C₆ alkylsulfonyl group, a cyano group, a nitro group or a

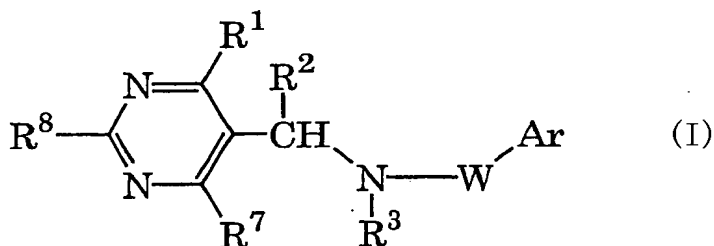
C₁-C₄ haloalkyl group, n' is an integer of from 1 to 3, ~~m is an integer of from 0 to 3,~~
and when n' is an integer of 2 or 3, the plurality of X' may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C₁-C₃ alkylenedioxy group);

R⁷ is a hydrogen atom or a halogen atom; and

R⁸ is a hydrogen atom.

Claim 5 (Currently Amended): A pyrimidine derivative represented by the formula

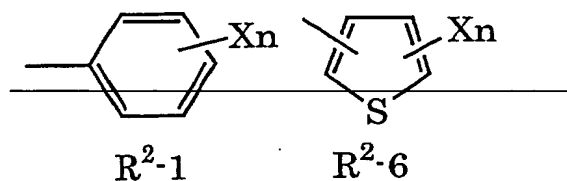
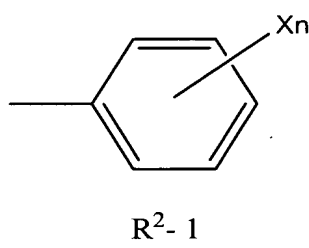
(I)



wherein R¹ is a C₁-C₆ alkyl group, a C₁-C₆ alkylcarbonyl C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group (this group may be substituted by a halogen atom, a C₁-C₆ alkyl group, a C₁-C₆ alkoxy group or a C₁-C₄ haloalkyl group), a C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy group, a phenyl group (this group may be substituted by a halogen atom, a C₁-C₆ alkyl group, a C₁-C₆ alkoxy group, a C₁-C₄ haloalkyl group, a C₁-C₄ haloalkoxy group, a cyano group, a nitro group, a C₁-C₆ alkylthio group, a C₁-C₆ alkylsulfinyl group or a C₁-C₆ alkylsulfonyl group), a C₁-C₆ alkylthio group (except for a case where R²=phenyl group, and W=SO₂), a C₁-C₆ alkylsulfinyl group, a C₂-C₇ acyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a cyano group, a

cyano C₁-C₆ alkyl group, a C₁-C₆ alkoxy carbonyl group, a C₁-C₆ alkoxy carbonyl C₂-C₆ alkenyl group, a carboxyl group, a di C₁-C₆ alkoxy C₁-C₆ alkyl group or a C₁-C₆ alkoxyimino C₁-C₆ alkyl group;

R² is a C₁-C₆ alkyl group, a C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group (this group may be substituted by a halogen atom, a C₁-C₆ alkyl group, a C₁-C₆ alkoxy group or a C₁-C₄ haloalkyl group) a C₂-C₇ acyl group, or a group represented by either the formula R²-1 or R²-6:



and (wherein X is a hydrogen atom, a halogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkoxy group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a NR⁹R¹⁰ group, a CONR⁹R¹⁰ group, a C₁-C₄ haloalkoxy group, a C₂-C₆ alkenyloxy group, a C₃-C₆ cycloalkyloxy group, a

C₂-C₇ acyl group, a C₁-C₆ alkoxy carbonyl group, a C₁-C₆ alkylthio group, a C₁-C₆ alkylsulfinyl group, a C₁-C₆ alkylsulfonyl group, a cyano group, a nitro group or a

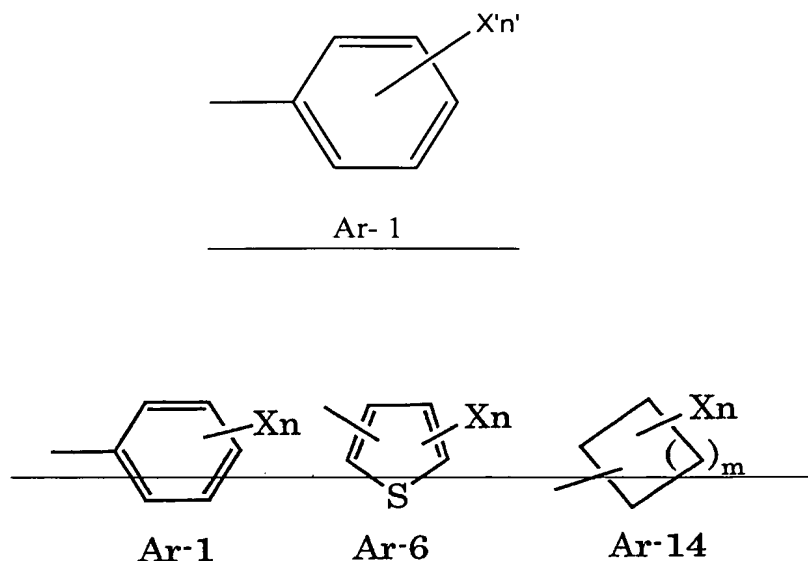
C₁-C₄ haloalkyl group, n is an integer of from 1 to 3, and when n is an integer of 2 or 3, the plurality of X may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C₁-C₃ alkylenedioxy group), and R⁹ is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a

C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group, a C₂-C₇ acyl group or a C₁-C₆ alkylsulfonyl group, and R¹⁰ is a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₄ haloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group, a C₂-C₇ acyl group, a C₁-C₆ alkylsulfonyl group, a C₁-C₆ alkoxycarbonyl group or a benzyloxycarbonyl group, ~~here R⁹ and R¹⁰ may, together with the carbon atom to which they are bonded, form a 5 to 7 membered saturated ring,~~ and each of R¹¹ and R¹² is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group or a C₁-C₆ alkoxy group;

R³ is a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkoxy group, a C₃-C₆ cycloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group or a cyano C₁-C₆ alkyl group;

W is a -C(=Q)Z- group or a -SO₂- group, Q is an oxygen atom or a sulfur atom, Z is a -NR⁶- group, a -C(R⁴)R⁵- group, a -C(R⁴)R⁵-Q- group, a -NR⁶NR^{6a}- group or a -NR⁶C(R⁴)R⁵- group, and each of R⁴ and R⁵ is a hydrogen atom, a C₁-C₆ alkyl group, a halogen atom or a C₁-C₆ alkoxy group, and each of R⁶ and R^{6a} is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group or a C₂-C₆ alkynyl group; ~~here R³ and R⁶ may, together with the carbon atom to which they are bonded, form a 5 to 7 membered cyclic urea,~~

Ar is a group represented by ~~either the formula Ar-1, Ar-6 or Ar-14:~~



and (wherein X X' is a hydrogen atom, a halogen atom, a $\text{C}_1\text{-C}_6$ alkyl group, a $\text{C}_2\text{-C}_6$ alkenyl group, a $\text{C}_2\text{-C}_6$ alkynyl group, a $\text{C}_1\text{-C}_6$ alkoxy group, a $\text{C}_1\text{-C}_6$ alkoxy $\text{C}_1\text{-C}_6$ alkyl group, a NR^9R^{10} group, a $\text{CONR}^9\text{R}^{10}$ group, a $\text{C}_1\text{-C}_4$ haloalkoxy group, a $\text{C}_2\text{-C}_6$ alkenyloxy group, a $\text{C}_3\text{-C}_6$ cycloalkyloxy group, a

$\text{C}_2\text{-C}_7$ acyl group, a $\text{C}_1\text{-C}_6$ alkoxycarbonyl group, a $\text{C}_1\text{-C}_6$ alkylthio group, a $\text{C}_1\text{-C}_6$ alkylsulfinyl group, a $\text{C}_1\text{-C}_6$ alkylsulfonyl group, a cyano group, a nitro group or a

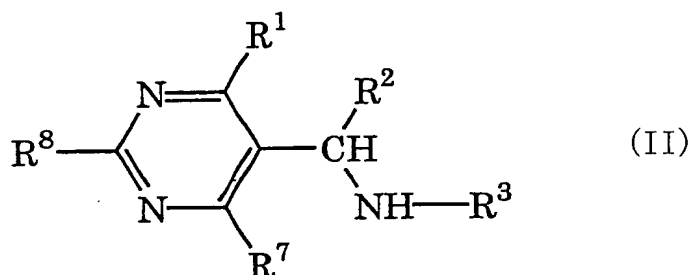
$\text{C}_1\text{-C}_4$ haloalkyl group, n n' is an integer of from 1 to 3, ~~m is an integer of from 2 or 3,~~
 and when n n' is an integer of 2 or 3, the plurality of X X' may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a $\text{C}_1\text{-C}_3$ alkylenedioxy group);

R^7 is a hydrogen atom, a halogen atom, a $\text{C}_1\text{-C}_6$ alkyl group, a

$\text{C}_1\text{-C}_6$ alkoxy group, a $\text{C}_1\text{-C}_6$ alkylthio group, a $\text{C}_1\text{-C}_4$ haloalkyl group or a $\text{C}_3\text{-C}_6$ cycloalkyl group; and

R^8 is a hydrogen atom, a $\text{C}_1\text{-C}_6$ alkyl group, a $\text{C}_1\text{-C}_6$ alkylthio group, a $\text{C}_1\text{-C}_4$ haloalkyl group or a $\text{C}_3\text{-C}_6$ cycloalkyl group.

Claim 6 (Currently Amended): A pyrimidine derivative represented by an intermediate represented by the formula (II)



wherein R¹ is a C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group (this group may be substituted by a halogen atom, a C₁-C₆ alkyl group, a C₁-C₆ alkoxy group or a C₁-C₄ haloalkyl group), a phenyl group (this group may be substituted by a halogen atom, a C₁-C₆ alkyl group, a C₁-C₆ alkoxy group, a C₁-C₄ haloalkyl group, a C₁-C₄ haloalkoxy group, a cyano group, a nitro group, a C₁-C₆ alkylthio group, a C₁-C₆ alkylsulfinyl group or a C₁-C₆ alkylsulfonyl group), a C₁-C₆ alkoxy C₁-C₆ alkyl group, a dioxolanyl group (this group may be substituted by a C₁-C₆ alkyl group) or a di C₁-C₆ alkoxy C₁-C₆ alkyl group;

R² is a C₁-C₆ alkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a C₁-C₆ alkylthio C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group (this group may be substituted by a halogen atom, a C₁-C₆ alkyl group, a C₁-C₆ alkoxy group or a C₁-C₄ haloalkyl group), a phenyl group (this group may be substituted by a halogen atom, a C₁-C₆ alkyl group, a C₁-C₆ alkoxy group, a C₁-C₄ haloalkyl group, a C₁-C₄ haloalkoxy group, a cyano group, a nitro group, a C₁-C₆ alkylthio group, a C₁-C₆ alkylsulfinyl group or a C₁-C₆ alkylsulfonyl group), ~~a thienyl group (this group may be substituted by a halogen atom, a C₁-C₆ alkyl group, a~~

~~C₁-C₆ alkoxy group, a C₁-C₄ haloalkyl group, a C₁-C₄ haloalkoxy group, a cyano group, a nitro group, a C₁-C₆ alkylthio group, a C₁-C₆ alkylsulfinyl group or a C₁-C₆~~

~~alkylsulfonyl group), or a di C₁-C₆ alkoxy C₁-C₆ alkyl group or a dioxolanyl group (this group may be substituted by a C₁-C₆ alkyl group);~~

R³ is a hydrogen atom, a C₁-C₆ alkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a C₁-C₆ alkoxy group, a C₃-C₆ cycloalkyl group, a C₁-C₆ alkoxy C₁-C₆ alkyl group, a cyano C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl C₁-C₆ alkyl group, an oxiranyl C₁-C₆ alkyl group or a C₁-C₆ alkoxycarbonyl C₁-C₆ alkyl group;

R⁷ is a hydrogen atom or a C₁-C₆ alkoxy group; and

R⁸ is a hydrogen atom, a C₁-C₆ alkyl group or a C₃-C₆ cycloalkyl group.

Claim 7 (Previously Presented): A herbicide containing the pyrimidine derivative as defined in Claim 1, as an active ingredient.

Claim 8 (Previously Presented): A herbicide containing the pyrimidine derivative as defined in Claim 2, as an active ingredient.

Claim 9 (Previously Presented): A herbicide containing the pyrimidine derivative as defined in Claim 3, as an active ingredient.

Claim 10 (Previously Presented): A herbicide containing the pyrimidine derivative as defined in Claim 4, as an active ingredient.

Claim 11 (Previously Presented): A herbicide containing the pyrimidine derivative as defined in Claim 5, as an active ingredient.